







TODAY'S SPEAKERS



Tim Conroy
National VP, Government and Healthcare
Partnerships, Mom's Meals

Tim is responsible for overseeing long-term services and support waiver benefit programs and helping customers and clients access state benefit programs for home-delivered meals. He partners with executive management teams at managed care organizations, local Area Agencies on Aging and community-based organizations to ensure the continuation of partnerships to support member services. Additionally Tim works on advocacy issues with state and federal government programs to expand innovation around SDOH and health equity programs.



Dara Hall, MSN, RNC-NIC

Maternal Child Health Clinical Lead

Delaware Health and Social Services
Division of Medicaid and Medical Assistance

Dara is a registered nurse and the Maternal Child Health Clinical Lead of the Division of Medicaid and Medical Assistance (DMMA) for the Delaware Department of Health and Social Services. She oversees clinical and quality outcomes of maternal and child health within DMMA, participates in statewide efforts to address maternal and child health, and has worked to implement and oversee special projects, including a postpartum, food box delivery program. She is passionate about strengthening the mother-infant dyad and improving outcomes through increasing access and addressing social determinants of health.

ABOUT MOM'S MEALS

Only national provider of refrigerated, medically tailored, home-delivered meals

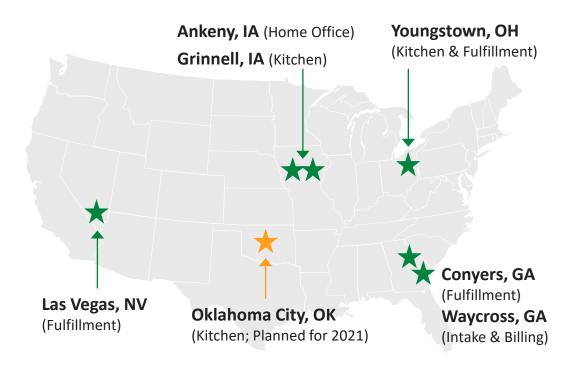
2,100+ employees; leaders with deep experience in food and healthcare industry

20+ Years in Healthcare

- Medicaid LTSS/HCBS Waivers
- Managed Medicaid
- Medicare Advantage
- Dual Eligibles/DSNPs
- Hospitals & Health Systems
- Government Programs
- AAAs
- Private Pay

Programs

- Long-Term Services and Support
- Post-Discharge Care
- Chronic Care
 Management



50M+ meals delivered annually to all 50 states and U.S. territories









ABOUT DELAWARE DEPARTMENT OF HEALTH AND SOCIAL SERVICES

Mission Statement: To improve the quality of life for Delaware's citizens by promoting health and well-being, fostering self-sufficiency, and protecting vulnerable populations.

Vision Statement: Together we provide quality services as we create a better future for the people of Delaware.

Priorities

- Maximize Personal and Family Independence
- Be a self-correcting organization working to retool to keep pace with changing client needs and a changing service delivery environment

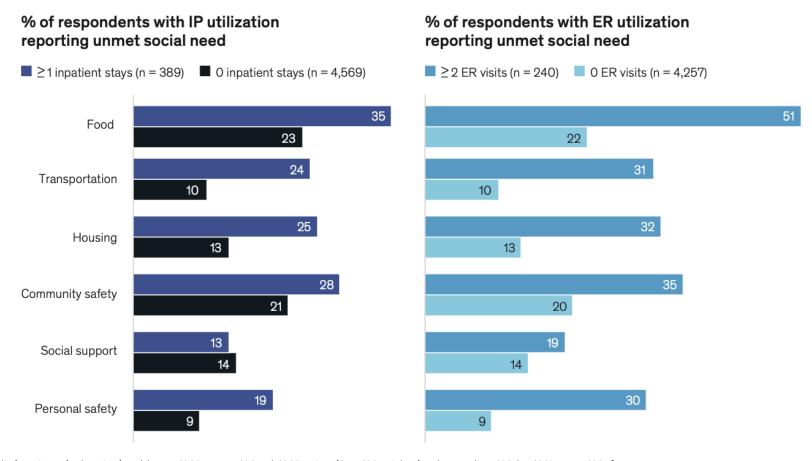
Goals

- DHSS will be customer service focused.
- DHSS will be driven by a shared vision.
- DHSS will communicate effectively, both internally and externally.
- DHSS will live its Beliefs and Principles and Management Principles.
- DHSS will function as an integrated organization which partners with outside organizations to improve the quality of services provided to our clients.



FOOD SECURITY: CRITICAL SDOH

Survey respondents reporting higher inpatient (IP) or emergency room (ER) utilization were more likely to report unmet social needs.



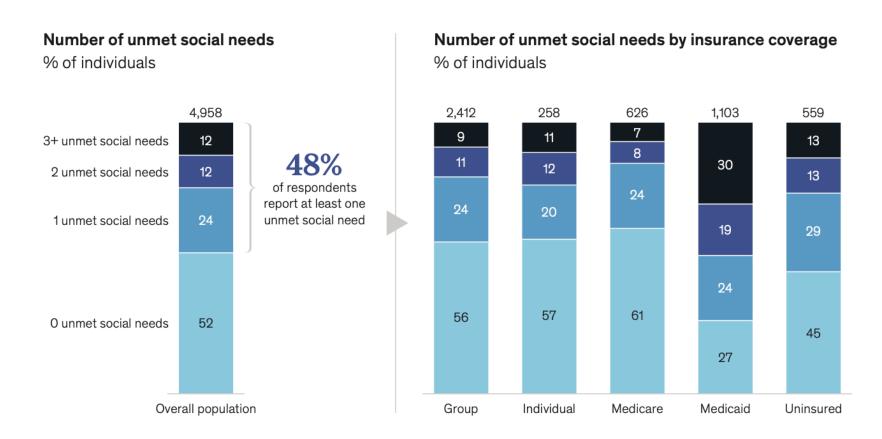
Source.

 $https://www.mckinsey.com/^{media/McKinsey/Industries/Healthcare%20Systems\%20and\%20Services/Our\%20Insights/Understanding\%20the\%20impact\%20of \%20unmet\%20social\%20needs\%20on\%20consumer\%20health\%20and\%20healthcare/understanding-the-impact-of-unmet-social-needs.pdf?shouldIndex=false$



UNMET SOCIAL NEEDS EXIST ACROSS PAYER TYPES

Nearly half of the surveyed population reported at least one unmet social need, including 44% of respondents with employer-sponsored group insurance.





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THE BUSINESS CASE FOR SDOH

Cost of Care

The number of deaths attributable to social factors in the U.S. are comparable to the number attributed to pathophysiological and behavioral causes.¹

Estimated cost of U.S. healthcare inequities from 2003–2006²:

- Estimated combined costs of health inequalities
 & premature death = \$1.24 trillion
- Annual loss to the U.S. economy = \$309 billion
- Eliminating minority disparities would reduce direct medical costs by \$229 billion for 2003-2006.

Non-Medical Models

- Countries that spend more on social services, such as family/child supports, disability, unemployment and housing relative to their gross domestic product have significantly better population health outcomes.³
- Assessing patients and members in a more holistic way can lead to significant improvements in health and wellbeing, as well as costs savings.
- SDOH are becoming as important as medical record information.



¹Galea et al. Estimated Deaths Attributable to Social Factors in the United States. 2011. Am J of Public Health. 101(8): 1456-1465.

²LaVeist, T., Gaskin, D., and P. Richard, "The Economic Burden of Health Inequalities in the United States," Joint Center for Political and Economic Studies, September 2009.

³Shrank, Keyes & Lovelace. Redistributing Investment in Health and Social Services – The Evolving Role of Managed Care. 2018. JAMA.

PATHWAYS FOR ADDRESSING SDOH: MEDICAID

Press release

CMS Issues New Roadmap for States to Address the Social Determinants of Health to Improve Outcomes, Lower Costs, Support State Value-Based **Care Strategies**

Jan 07, 2021 | Medicaid & CHIP







Today, the Centers for Medicare & Medicaid Services (CMS) issued guidance to state health officials designed to drive the adoption of strategies that address the social determinants of health (SDOH) in Medicaid and the Children's Health Insurance Program (CHIP) so states can further improve beneficiary health outcomes, reduce health disparities, and lower overall costs in Medicaid and CHIP. SDOH describe the range of social, environmental, and economic factors that can influence health status -conditions that can often have a greater impact on health outcomes than the actual delivery of health services. The new guidance describes how states can leverage existing flexibilities under federal law to tackle adverse health outcomes that can be impacted by SDOH and supports states with designing programs, benefits, and services that can more effectively improve population health and reduce the cost of caring for our nation's most vulnerable and high-risk populations.

The United States spends more on health care than almost any other country yet often underperforms on key health indicators including life expectancy, reducing chronic heart disease, and maternal and infant mortality rates. According to the CMS Office of the Actuary, national health spending is projected to grow rapidly and reach \$6.2 trillion by 2028. For its part, in 1985, Medicaid spending consumed less than 10% of state budgets and totaled just over \$33 billion dollars. In 2019 that number had grown to consume 29% of total state spending at a total cost of \$604 billion dollars.[1]

Medicaid Options

- Benefit
- Waivers: 1115, 1135(b), 1915(c)
- Administrative dollars

Issues

 Multiple paths to providing benefits create confusion





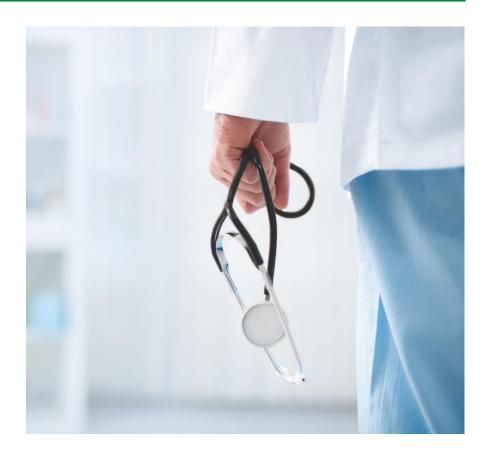
WHAT'S NEEDED TODAY AND TOMORROW?

Today

- Product advocate who knows the policy pathways
- Data to ID members who can benefit from SDOH support
 - HRA
 - Case Management System
- Case Management Team
 - Awareness of Benefit
 - Access to the Benefit
 - Advocate to use the Benefit

Tomorrow

- Allocated budget
- Policy clarity
- Incentives
- Measurement
- Provider awareness z-codes
- Member awareness





FOUNDATIONAL RESEARCH

JAMA: Meals Lower Costs For Chronically III

People with chronic conditions who received condition-appropriate home-delivered meals for an average of 12 months (median 9 months) had **16% lower health care costs** compared to matched controls.

- \$3,838 vs. \$4,591 difference in monthly cost of care
- \$712/month savings in IP and SNF majority of savings
- ED visits were not measured





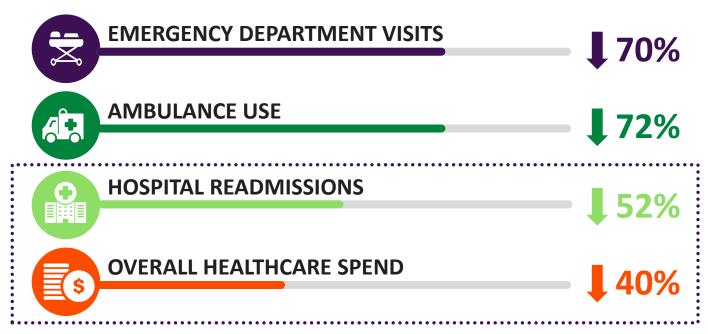
FOUNDATIONAL RESEARCH

Good Nutrition Helps Control Chronic Conditions



Impact of medically tailored meals delivered weekly to members at nutritional risk (weight change, food insecure, chronic conditions) for six months

Results only for medically tailored meal programs





PILOT: CHRONIC CONDITIONS



UPMC & MOM'S MEALS' MEDICALLY TAILORED MEAL PROGRAM

Background

- Without adequate nutrition, individuals with chronic conditions may struggle with condition selfmanagement, which ultimately affects a higher overall medical spend to care for those members.¹
- Food insecurity and food insufficiency lead to poor nutritional status and low medication adherence, which contribute to poor clinical outcomes.
- By improving engagement in care and medication adherence, medically tailored meals can help to improve the effectiveness of treatment plans by providers and care managers.

Objective & Expected Outcomes



Objective

To improve chronic care management and lower the cost of care for plan members through a 13-week home-delivered meals intervention



Expected Outcomes

- Reduction in total medical spend as measured by medical claims
- Increased medication adherence as measured by pharmacy claims



¹Berkowitz, Seth, et al. "Meal Delivery Programs Reduce The Use Of Costly Health Care In Dually Eligible Medicare And Medicaid Beneficiaries." The Physician Payments Sunshine Act, 2017, www.healthaffairs.org/doi/10.1377/hlthaff.2017.0999.

UPMC/MOM'S MEALS PILOT—TARGET & RECRUITMENT





- Multiple co-morbidities
- Nutrition-sensitive condition(s)
- Psychosocial needs

The pilot targeted members enrolled in the UPMC Community Health Worker (CHW) Impact Program or Community Team Program who did not need housing assistance.



CHWs and care managers determined eligibility based on:

- Food insecurity
- Household size
- Meal prep equipment (refrigerator and/or microwave oven)



UPMC/MOM'S MEALS PILOT—ENROLLMENT & INTERVENTION



Enrollment (100 members)

Enrollees had a history of a high condition-based medical spend. Each member had at least one of the following conditions:

- Diabetes
- Asthma
- Coronary Artery Disease
- Heart Failure
- Chronic Obstructive Pulmonary Disease (COPD)
- Severe Persistent Mental Illness (SPMI)
- Substance Abuse Disorder



Intervention

3 meals/day for 13 weeks

Enrollees received weekly deliveries of fully prepared, condition-appropriate, refrigerated meals during a 3-month timeframe between October 2019 and June 2020.



UPMC & MOM'S MEALS' PILOT—MAIN MEASURES



Claims data for enrollees were evaluated against a comparison group of members who met SDOH food insecurity criteria. The equated sample was selected based on eligibility month, age, gender, residence and co-morbidity using propensity scores.

Engagement remained high—74 enrollees (74%) received meals for 13 weeks.

- To account for a decrease in utilization due to COVID-19, change in cost and utilization for members receiving meals were compared to similar members not receiving meals.
- Due to small sample size, distribution and COVID-19, a nonparametric statistical analysis was conducted.
 - Total cost of care
 - Medical costs
 - Pharmacy costs
 - Average change in ED utilization



PILOT OUTCOMES SHOW A POSITIVE TREND IN FINANCIAL RETURN

TOTAL COST OF CARE



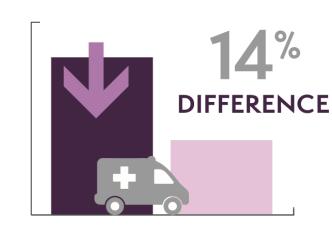
36% DECREASE

in median total cost of care for 6 months post meals



18% DECREASE in comparison group

ED UTILIZATION



31% DECREASE

in ED utilization for 6 months post meals



17% DECREASE in comparison group



INSIGHTS

Individuals who received meals had a 19% total cost of care reduction, largely driven by a decrease in ED utilization.

- 19% TCOC on top of COVID- 19 decrease in utilizations, as displayed in analysis
- Total cost of care decrease support return on investment for meal delivery

The largest ED reduction was identified among members with a diagnosis of SPMI.

- Non-emergent ED utilization drivers are NOT medical
- Facilitating basic needs contributes to tangible cost savings

Pilot displays promising results in cost containment and reduction in avoidable unplanned care.

- Larger population/longer post meal time frame path to statistical significance
- Supports research that SDOH investment reduces medical costs
- Unmet biopsychosocial needs contribute to medical costs/unplanned care
- Start-up investment; longitudinal payback



PILOT PROGRAM: DIABETES



COLLABORATION WITH AMERIHEALTH CARITAS DC



Chronic Care Meals Program for Members with Diabetes

- AmeriHealth Caritas DC contracted with Mom's Meals to provide in-home delivery of condition-appropriate meals to select members where nutrition has the potential to positively impact their condition.
- Members in this program included those with:
 - Pre-diabetes
 - Uncontrolled diabetes
 - Gestational diabetes or hypertension
 - Designated conditions following an inpatient stay
- Those with pre-diabetes and uncontrolled diabetes were enrolled for 90 days.
- Those with gestational diabetes or hypertension were enrolled for the duration of their pregnancy plus 2 weeks following delivery.
- Each week, participants received up to 21 specially packaged ready-to-eat meals.





EARLY RESULTS: CHRONIC CARE PILOT



Among Members with Pre-Diabetes, Uncontrolled Diabetes, Gestational Diabetes or Hypertension, or Designated Conditions After Hospital Stay



Decline in A1c Levels:

• **Average:** .25 point (3.1%)

• Range: 1.2 to +0.1 points (-9.3% to 0.8%)



Weight Loss:

• **Average:** 3.9 pounds (1.4%)

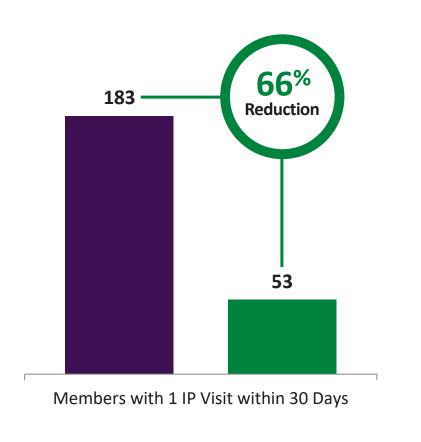
• Range: 16 pounds to + 6.4 pounds (5.6% to + 3.8%)

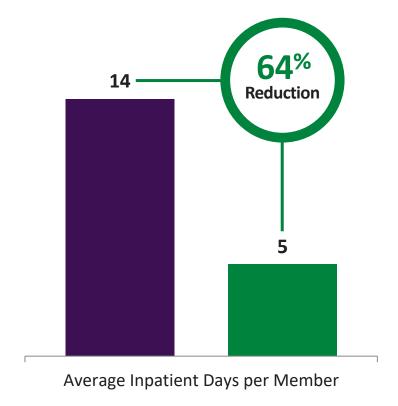


CHRONIC CARE PILOT: RETROSPECTIVE CLAIMS ANALYSIS



Among 392 Members





Prior to receiving Mom's Meals

After receiving Mom's Meals



PILOT PROGRAM: RENAL HEALTH



HDM AND RENAL PATIENTS





Researchers From the University of Illinois Urbana-Champaign with Grant Support From the Renal Research Institute

Challenge



- Patients with kidney failure on hemodialysis (HD) have significant dietary restrictions, including reduced sodium intake.
- Behavioral counseling is rarely effective.
- Many patients live in a "high-sodium food environment" and may have barriers to dietary and behavioral changes.

Question



• Can home-delivered meals help support reduction in dietary sodium to drive clinical impact and help meet health goals?



STUDY DESIGN







Participants followed a usual (control) diet for the first 4 weeks followed by 4 weeks of 3 low-sodium, home-delivered meals per day.



Meals had <700 mg sodium each (<2,000 mg total sodium per day) and were low in potassium and phosphorus.



Interdialytic weight gain (IDWG)

Hydration status (bioimpedance)

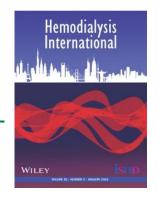
Blood pressure

Food intake (3-day dietary recall)

Muscle sodium (magnetic resonance imaging)



CLINICAL FINDINGS PUBLISHED IN HEMODIALYSIS INTERNATIONAL



-0.82 kg



Significant reduction in interdialytic weight gain (IDWG)

-1687 mg



Reduction in sodium intake

-23%, -25%



Reduced thirst (-23%) and dry mouth (-25%) scores -1.55 mg/dL



Reduced plasma phosphorus

-1.1 L



Reduction in volume overload

-18 mmHg



Reduction in systolic blood pressure



CONVENIENCE OF HDM HELPED DRIVE RESULTS



Overall, participants reported eating an average of **66 out of 84 meals** provided, which translated to approximately **2.4 meals per day** eaten, for overall average adherence rate of **79%**.



In summary, home delivery of low-sodium, kidney-friendly meals is a feasible short-term approach to reduce sodium intake, thirst, dry mouth, IDWG, blood pressure, plasma phosphorus, and volume overload in HD patients.

– Perez LM, Fang H-Y, Ashrafi S-A, et al



4 Most Common Feedback Themes Provided by Participants



"helped with not cooking and shopping"



"liked the different meal options and taste"



"helped with thirst, fluid intake, and/or fluid gain"



"helped with busy work or life schedule"



PARTNERSHIP PILOTS SHOW STRONG EARLY RESULTS









POSTPARTUM FOOD BOX PARTNERSHIP PROGRAM

"Food Box Delivery after Delivery"

BACKGROUND

- Food insecurity lack of consistent access to sufficient food
- Food insecurity disproportionately impacts:
 - Female-headed households
 - Households at or below FPL
 - Households with children <6
 - Individuals of color
- Food insecurity exacerbated by COVID-19 pandemic in Delaware & the US
- Food insecurity not often disclosed due to social stigma



IMPACT



- Food insecurity has impacts for maternal-infant dyad
 - Increased risk for major depression & general anxiety disorder
 - Increase risk of postpartum depression (PPD)
 - Decrease rates of breastfeeding
- Food insecurity increase risk of contracting COVID-19
 - Food insecurity = forced to obtain food in person
 - Long waits at crowded food pantries increased exposure
- Food insecurity does not occur in isolation from other SDOH



RESPONSE



- Developed a Postpartum Food Box Delivery program
- Partnership between
 - Division of Medicaid and Medical Assistance (DMMA)
 - Food Bank of Delaware
 - ModivCare
 - Amerihealth Caritas and Highmark Health Options, the Medicaid managed care organizations (MCOs)



PROCESS

- Members notified of program through hospitals, community programs, providers, and MCOs
 - Members had choice of 2 box options
 - Variety of shelf-stable food
 - Deliveries Tuesday & Thursdays
- Members called their MCO to set up deliveries
- MCOs shared delivery information with Modivcare
- ModivCare coordinated food box orders with Food Bank



TIMELINE

- Partnership meeting October 2020
- Finalization of roles & responsibilities December 2020
- Implemented c-section pilot February 2021
- Expanded to all postpartum members July 2021

ROLES & RESPONSIBILITIES



MCOs

Receive incoming calls from members.

Provide email to Modivcare daily on member interest, boxes requested, box options, delivery dates

ModivCare

Contact members on report to schedule delivery date & verify information

Email Food Bank prior to pick-up with information on box types and pick-up locations

Make scheduled deliveries

Return boxes that couldn't be delivered

Food Bank

Make food boxes according to Modivcare orders

Provide boxes at location for drivers (2 locations in state)



MEMBER FEEDBACK

Reduced burden with accessing food

Decreased stress with traveling outside home with newborn

Enhanced relationship with MCOs to address SDOH needs



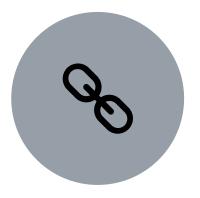
PARTNERS FEEDBACK



PROGRAM HAS HELPED TO IDENTIFY FOOD INSECURITY



ENHANCED CONNECTION WITH MEMBERS DIFFICULT TO REACH



ENSURE LINKAGES TO RESOURCES TO ADDRESS FOOD INSECURITY LONG-TERM

LESSONS LEARNED

- Communication is key
 - Frequent & on-going
- Continue to amend and make changes
 - Flexibility & continued evaluation
- Clearly define roles & responsibilities
 - Establish prior to implementation but ensure flexibility





NEXT STEPS



Program funded through 2022



Identification of quantitative measures to assess impact



THANK YOU FOR ATTENDING

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